MANUFACTURING EXTENSION PARTNERSHIP Success Stories from the Field

Pump Systems International

New Mexico Manufacturing Extension Partnership

Weld Inspection Training for Code Compliance

Client Profile:

Pump Systems International (PSI) is located in Albuquerque, New Mexico, and currently employs between 10 to 12 people. For seven years this company has been providing engineering design services for oil and gas processing systems. PSI 's completed designs are then forwarded on to Compressor Systems International (CSI) (PSI's sister company) for final fabrication and manufacturing.

Situation:

PSI designs and supervises the fabrication of various processing systems for the oil and gas industries. Part of the supervision process is the evaluation of PSI designed process/piping systems. The fabrication of these systems involves a substantial amount of welding which must conform to various industry welding codes. These welding codes require formal visual weld inspections. The personnel performing these inspections must be trained and qualified. PSI's parent company, CSI, fabricates the final designs developed and approved by PSI. Although CSI performs the necessary and qualified inspections for fabricated product, PSI personnel had no training in this area and were unfamiliar with the requirements and methods of performing visual weld inspection activities. PSI turned to the New Mexico Manufacturing Extension Partnership (New Mexico MEP), a NIST MEP network affiliate, for assistance.

Solution:

New Mexico MEP provided a three day training program, with examinations, for five employees at PSI. All five employees are now fully trained and qualified, in accordance with industry welding code requirements to perform visual weld inspections. This training allows PSI to more effectively perform oversight activities on the fabrication of PSI product designs fabricated by CSI.

Results:

- * Realized a cost savings of \$5000 by utilizing New Mexico MEP training resource rather than using out-of-state provider.
- * Trained and qualified to perform visual weld inspections.
- * Increased ability to effectively oversee fabrication and final inspection processes.

Testimonial:

"The training was extremely beneficial to the PSI staff as our knowledge of industry welding codes and their requirements for inspections was relatively little. Although we do not directly perform final inspection activities, as a result of the training that the New Mexico MEP provided, we are now significantly more familiar with the fabrication and inspection requirements of our product which enables our oversight of the fabrication and final inspection processes to be much more comprehensive and thorough than ever before."



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Santiago Aller, Manager

